

Work Order ID 51749

September 2, 2009 8:28:58 AM



Page 1

Item ID: D350-615-041
Revision ID: B
Item Name: Ground Handling Wheel Modification
Start Date: 9/02/09 Start Qty: 23.00
Required Date: 9/04/09 Req'd Qty: 23.00
Reference:

Accept



Setup Start



Stop



Cust Item ID:

Customer:

Approvals: Process Plan: *W*

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D350-615-041	B
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100

0.00



DC

Document Control

Memo

0.00

Photocopy bluefile and type labels (2 GHW Kits per box) as per PPP D350-615-041 CHG003

8/01/07

NG for BG 09/09/08

110

0.00



Small Fab

Small Fab

Memo

0.00

Assemble D2282-041 with D2282-043 as per Dwg D350-615 ***Only engage one thread on three 5/16-18-015C bolts***

09/09/08 (23)

120

QC5- Inspect part completeness to step on W/O

0.00



QC

Quality Control

Memo

0.00

-> 8/01/08

*count
(23) /*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 51749

September 2, 2009 8:28:58 AM

Page 2

Item ID: D350-615-041

Accept

Setup Start

Revision ID: B

Stop

Item Name: Ground Handling Wheel Modification

Start Date: 9/02/09 Start Qty: 23.00

Cust Item ID:

Required Date: 9/04/09 Req'd Qty: 23.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

QC4- 100% Inspect kits for completeness

0.00

QC

Memo

0.00

Quality Control

140

0.00

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-615-041

Location: E
PPP Rev: E

150

QC21- Final Inspection - Work Order Release

0.00

QC

Memo

0.00

Quality Control

Set
(X/1) + 1 p

9/9/9 (23X) SP

09/09/11 JF

ME
09-09-10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

September 2, 2009 8:28:56 AM

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Work Order ID: 51749



Parent Item: D350-615-041RevB



Parent Item Name: Ground Handling Wheel Modification

Start Date: 9/02/09

Required Date: 9/04/09

Comments:

Start Qty: 23.00

Required Qty: 23.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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D2282-041RevE		Manufactured	No			110	Each	79.0000	23.0000			
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T Assembly

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		

Main Warehouse

ST	79	
----	----	--

50650	50	
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51288	29	
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D2282-043RevE		Manufactured	No			110	Each	91.0000	23.0000			
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Saddle Assembly

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		

Main Warehouse

ST	91	
----	----	--

46685	8	
-------	---	--

50651	49	
-------	----	--

51313	34	
-------	----	--

EP 09/09/08

23

EP 09/09/08

23

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

September 2, 2009 8:28:56 AM

Work Order ID: 51749



Parent Item: D350-615-041RevB



Parent Item Name: Ground Handling Wheel Modification

Start Date: 9/02/09

Required Date: 9/04/09

Comments:

Start Qty: 23.00

Required Qty: 23.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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5/16-18-015C

Purchased

No

110

Each

671.0000

69.0000



SS Bolt 5/16-18 1.5" L

Warehouse
Location

Loc Qty

Loc Code

Premier

Mezz

1

107762

1

Main Warehouse

ST

670

111550

170

112560

500

Ep 09/09/08

D3015-3RevB

Manufactured

No

110

Each

423.0000

69.0000



Locknut

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

423

43758

26

44446

49

48238

348

Ep 09/09/08

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

September 2, 2009 8:28:56 AM

Work Order ID: 51749

Parent Item: D350-615-041RevB

Parent Item Name: Ground Handling Wheel Modification


Start Date: 9/02/09

Required Date: 9/04/09

Comments:


Start Qty: 23.00

Required Qty: 23.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
5/16WC  SS Flat Washer 5/16		Purchased	No			110	Each	1,664.000	276.0000			

EP 09/09/08

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	1664	
107762	62	
110138	22	
110726	180	
111876	400	
112560	1000	

7/16-14-050C  SS Bolt 7/16 5" Long		Purchased	No			110	Each	285.0000	23.0000			
---	--	-----------	----	--	--	-----	------	----------	---------	--	--	--

276

EP 09/09/08

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	285	
111576	85	
111903	100	
112552	100	

23

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

September 2, 2009 8:28:57 AM

Work Order ID: 51749



Parent Item: D350-615-041RevB



Parent Item Name: Ground Handling Wheel Modification

Start Date: 9/02/09

Required Date: 9/04/09

Comments:

Start Qty: 23.00

Required Qty: 23.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3015-5RevB

Manufactured

No

110

Each

30.0000

23.0000



SS Nylock Nut 7/16



Ep 09/09/08

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

30

41899

5

48112

25

B 51709

(23)

7/16WC

Purchased

No

110

Each

868.0000

46.0000



SS Flat Washer 7/16



Ep 09/09/08

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

868

110458

60

112563

800

15747

8

46

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

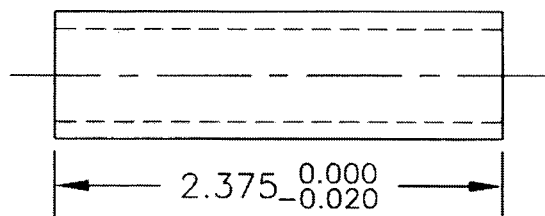
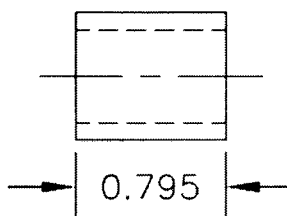
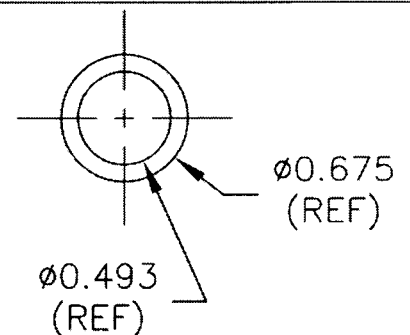
NOTE: Date & initial all entries

DART

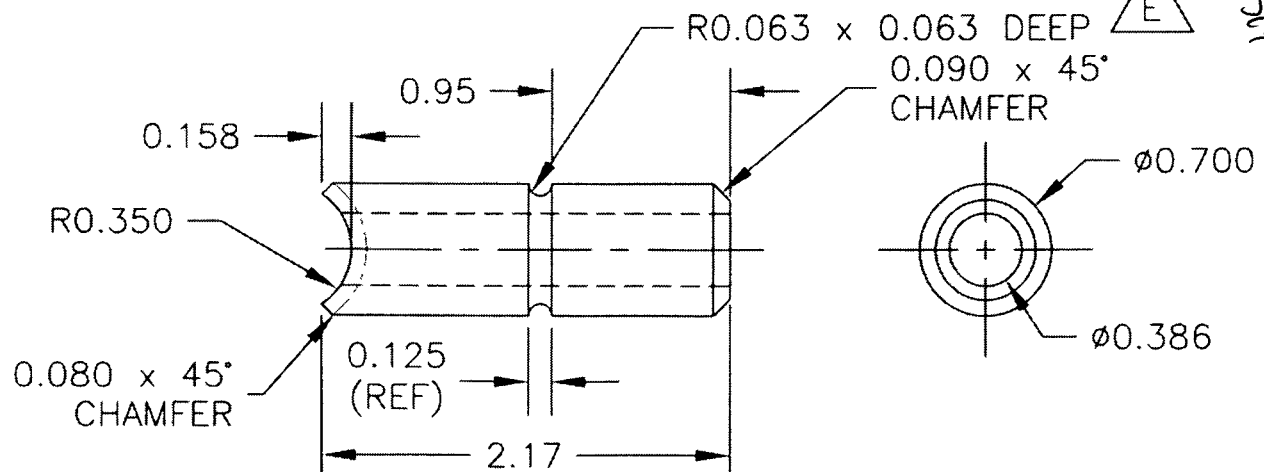
DESIGN BW	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D2282	REV. E SHEET 1 OF 2
DATE 05.06.07	TITLE HANDLE TUBES		SCALE 1:1
A	94.10.14	NEW ISSUE	
B	95.03.23	RE-DESIGN	
C	97.10.20	CORRECTED NUMBERING SCHEME	
D	05.03.16	REDESIGN D2282-5; 0.795 WAS 0.750	
E	05.06.07	D2282-5 304 SS WAS 303 SS; R0.063 x 0.063 WAS R0.080 x 0.030	

RELEASED

05/09/16

**D2282-3****D2282-7****D2282-3/-7 TUBE:**

- 1) MATERIAL: T304/T316 3/8 SCHEDULE 40 (REF. DART SPEC. M304TR0.675W.091)
- 2) BREAK ALL UMARKED SHARP EDGES 0.005 TO 0.010
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

**D2282-5****D2282-5 STEM:**

- 1) MATERIAL: AISI 304 STAINLESS STEEL (REF. DART SPEC. M304R0.750)
- 2) BREAK ALL UMARKED SHARP EDGES 0.005 TO 0.010
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

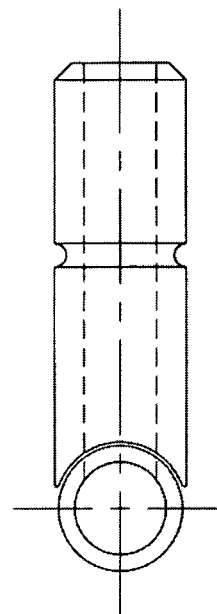
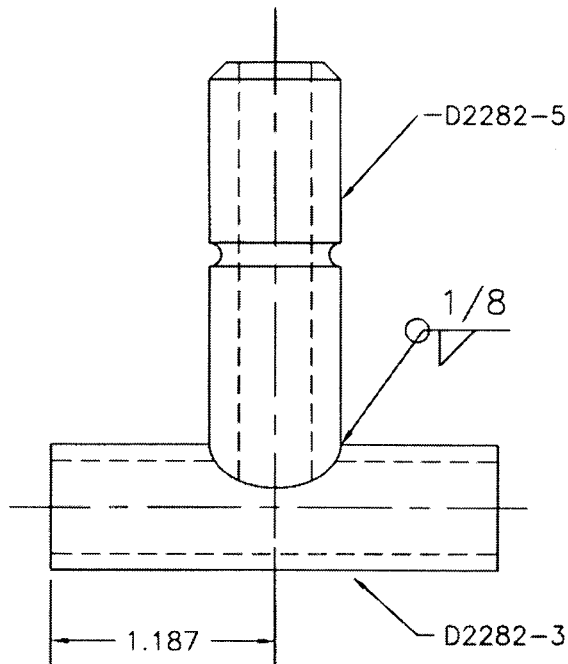
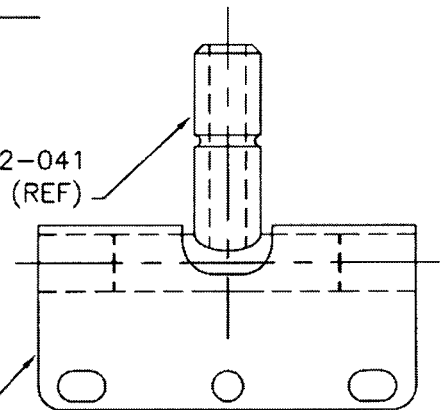
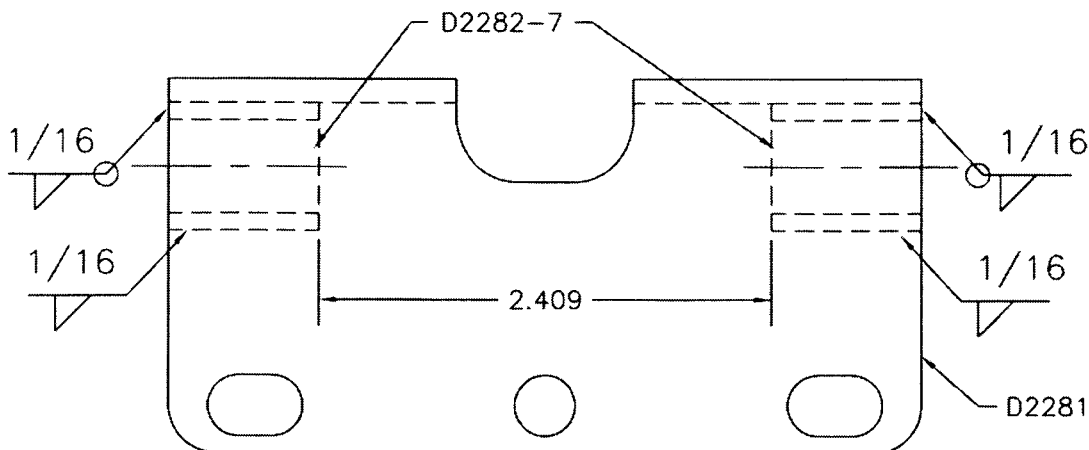
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART

DESIGN BW	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D2282	REV. E SHEET 2 OF 2
DATE 05.06.07		TITLE HANDLE TUBES	SCALE 1:1

D2282-041
(REF)**GENERAL ASSEMBLY**
SCALE 1:2**D2282-043 SADDLE ASSEMBLY**
WELD ASSEMBLY PER DART QSI 004

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

• **NOTE:** Date & initial all entries



DESIGN BW	DRAWN BY KE	DART AEROSPACE LTD. VICTORIA INTERNATIONAL AIRPORT, CANADA	
CHECKED MB	APPROVED BW	DRAWING NO. D350-615	REV. B SHEET 1 OF 2
DATE 97.10.21		TITLE GROUND HANDLING WHEEL MOD.	SCALE NTS
A	95.03.23	NEW ISSUE	
B	97.10.21	CHANGE NUMBERING SCHEME	

MB
51749

-041	Part No.	Description
X	D350-615-041	Ground Handling Wheel Mod.
1	D2282-041	"T" ASSEMBLY
1	D2282-043	SADDLE ASSEMBLY
3	5/16-18-015C	5/16 BOLT 1.5 LONG
3	5/16-18NC	5/16 LOCKNUT (D3015-3)
12	5/16WC	5/16 WASHER
1	7/16-14-050C	7/16 BOLT 5.0 LONG
1	7/16-14NC	7/16 LOCKNUT (D3015-5)
2	7/16WC	7/16 WASHER

THESE INSTRUCTIONS ARE TO BE USED IN CONJUNCTION WITH
THE AIRCRAFT MAINTENANCE AND OVERHAUL INSTRUCTION MANUAL
AC43.13.1A & 2A ACCEPTABLE METHODS, TECHNIQUES, AND PRACTICES

INSTALLATION:

1. Remove existing ground handling wheel pump saddle.
2. Replace saddle with D350-615-041.
3. Torque 5/16 bolts to bottom, then back-off half turn to allow easy rotation without excessive play.



DESIGN B.D.	DRAWN BY KE	DART AEROSPACE LTD VICTORIA INTERNATIONAL AIRPORT, CANADA	
CHECKED D.M.	APPROVED B.D.	DRAWING NO. D350-615	REV. B SHEET 2 OF 2
DATE 97.10.21	TITLE GROUND HANDLING WHEEL MOD.	SCALE NTS	

